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Soybean flour lipoxygenase isozyme mutant effects on bread dough volatiles

K Addo, D Burton, MR Stuart, HR Burton, ... - JOURNAL OF FOOD ..., 1993 - interscience wiley.com

... Defatting selectively reduced lipoxygenase 2 activity with little effect on lipoxygenases 1 and

3. Addition of full fat soy flour from mutant isolines indicated that as with soybean homogenates, lipoxygenase 2 is mostly responsible for undesirable aroma compounds. ... Barley, ...

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Soybean flour **lipoxygenase** isozymes effects on wheat flour dough rheological and ...

B Cumbee, DF Hildebrand, K Addo - Journal of Food Science, 1997 - interscience wiley.com

... Copyright 1997 by the Institute of Food Technologists. KEYWORDS. soy • lipoxygenase • isozymes • rheology • breadmaking. ... A reduction in bread firmness occurred after 5 day storage for all three single null mutant-containing samples in the presence of 1.0% linoleic acid ... Barley, ...

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Differential defense reactions in leaf tissues of barley in response to infection by ...

S Steiner-Lange, A Fischer, A Boettcher, I ... - Molecular Plant- ..., 2003 - Am Phytopath Society ... genes. I1 cor- responds to the gene encoding barley lipid transfer protein 2 (LTP2) (Molina and Garcia-Olmedo 1993), and I8 to the gene coding for barley lipoxygenase LOX-1 (LoxA) (van Mechelen et al. 1995). Furthermore ...

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## Jasmonate-signalled plant gene expression

C Wasternack, B Parthier - Trends in Plant Science, 1997 - Elsevier

... of jasmonate, abscisic acid, specific transcripts and proteins in osmotically stressed barley leaf segments ... E. Bell, R. Creelman and JE Mullet, A chloroplast lipoxygenase is required for wound ... GA Howe et al., An octadecanoid pathway mutant (JL5) of tomato is compromised in ...

Cited by 319 - Related articles - All 3 versions

## The **lipoxygenase** pathway

I Feussner, C Wastemack - 2003 - Annual Reviews

... synthase; DES, divinyl ether synthase; α-DOX, α-dioxygenase; EAS, epoxy alcohol synthase; HPL, hydroperoxide lyase; LOX, lipoxygenase; POX, peroxygenase ... 88), and Medicago truncatula (AJ316561), two AOSs have been found thus far in tomato (56, 105) and barley (80). ...

Cited by 402 - Related articles - BL Direct - All 4 versions

## Low lipoxygenase 1 barley

AC Douma, A Doderer, V Cameron-Mills, B ... - US Patent App. 09/ ..., 2000 - Google Patents ... 29, 2000 Publication Classification (51) Int. Cl.7 C12N 15/82 (52) US Cl 800/320.1; 800/281 (57) ABSTRACT **Barley** plants having reduced **lipoxygenase-1** enzyme activ- ity are provided, for example, barley plants expressing mutant LOX-1 protein. ...

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Jasmonate-induced lipid peroxidation in barley leaves initiated by distinct 13-LOX ...

A Bachmann, B Hause, H Maucher, E Garbe, ... - Biological ..., 2002 - reference-global.com ... isolated from barley leaves (Hordeum vulgare cv. Salome) and char- acterized. Both of them encode 13-lipoxygenases with putative target sequences for chloroplast im- port. Immunogold labeling revealed preferential, if not exclusive, localization of lipoxygenase proteins in the ...

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## Conversion of cucumber linoleate 13-lipoxygenase to a 9-lipoxygenating species ...-

E Hornung, M Walther, H Kühn, I ... - Proceedings of the ..., 1999 - National Acad Sciences ... These data indicate the complete conversion of a linoleate 13-lipoxygenase to a 9-lipoxygenating ... For bacterial expression of wild-type and mutant LOX species and for site-directed mutagenesis ... LOX-2; 9-LOX: potato tuber LOX, tobacco elicitor-induced LOX, barley LOX-A ...

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The allene oxide cyclase of **barley** (Hordeum vulgare L.)—cloning and organ-...

H Maucher, I Stenzel, O Miersch, N Stein, M Prasad, U...-Phytochemistry, 2004 - Elsevier
... Author Keywords: **Barley**; Jasmonates; Allene oxide synthases; Allene oxide cyclase; Stress
response; Tissue ... Ile, JA--isoleucine conjugate; JAME, JA methyl ester; LOX, **lipoxygenase**; OPDA,
12 ... PLA1), as evidenced by a recently identified JA-deficient **mutant** dad1 (delayed ...
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... expression and the oxylipin signature in stressed barley leaves. Implications for ...-

R Kramell, O Miersch, R Atzorn, B Parthier, C ... - Plant ..., 2000 - Am Soc Plant Biol ... Schlüter K, Burges J, Parthier B, Apel K (1992) The identification of leaf thionin as one of the main jasmonate-induced proteins of **barley** (Hordeum vulgare). Plant Mol Biol 19: 193-204 [ISI][Medline]; Bell E, Creelman RA, Mullet JE (1995) A chloroplast **lipoxygenase** is required ...

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